1. Simplify:

$$4x - 5y + 12x + 3x$$

2. Simplify

$$13x + \frac{2}{3}y + 11 + \frac{1}{4}y + 9$$
3. Simplify

$13x + 2 - 5y + 6y + 8 - x$

4. Ashley used the method shown below to add $\frac{3}{5}$ and $\frac{1}{4}$.

Step 1: $\frac{3}{5} + \frac{1}{4} = 0.6 + 0.25$

Step 2: $= 0.85 = \frac{85}{100}$

Step 3: $= \frac{17}{20}$

Is Ashley's work correct? If not, which is the first incorrect step?

A. All steps are correct
B. Incorrect step is 1.
C. Incorrect step is 2.
D. Incorrect step is 3.
5. Simplify.

\[ x + \frac{2}{3}x + 6 + \frac{3}{5}x \]


\[ 2(5x - 1) + 3x \]
7. Simplify.
\[-6x + 4(2x - 7)\]

8. Simplify.
\[7 - (3x - 4)\]
9. Carrie is making a cake recipe that calls for \( \frac{3}{4} \) cups of sugar. She needs \( \frac{2}{3} \) cups of sugar for the frosting. What is the total amount of sugar used?

10. Simplify.

\[ 5(-2x + 4) + 3x - 2 \]
11. The area of a rectangle is $4x + 12$, and the length is 2. What is the width of the rectangle?

12. Which expression is equivalent to $m + (p + 6)$ by the associative property?

A. $(m + p) + 6$
B. $m + (6 + p)$
C. $(p + 6) + m$
D. $p + 6 + m$

\[
\frac{3}{4}(8x - 12) - \frac{1}{2}(2x - 4)
\]


\[
(-2x + 7) - (3x + 22)
\]
15. 4 friends went to the movies. Their bill was $4x + 24$, where $x$ is the price of a movie ticket. If the friends split the bill evenly amongst the 4 of them, what expression represents the amount each friend had to pay?

16. Area?

$3y - 2$
17. The perimeter is $11x + 17$. What is the missing side?

18. If the area of the rectangle below is $6x + 4$ and the width is 2, what is the length?
19. Represent the AREA and PERIMETER in terms of $x$.

\[ x + 4 \quad \text{3} \]

20. By what property are $x + 3(7 - x)$ and $x + 21 - 3x$ equivalent?
Summary

Test tomorrow.....thoughts?!